

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~A~~An MP3 player, comprising:

- a memory unit, to store MP3 files;
- a DSP processor, to decode the MP3 files under a playing operation, producing an audio signal;
- an earphone, responsive to said audio signal to convert said audio signal into sound;
- a microphone, responsive to a voice to provide an electrical signal transmitted to said DSP processor; and
- a key inputting unit, to transmit a command requested by a user to said DSP processor[;]]
characterized in that;

wherein said MP3 player further comprises a wireless transceiver connected to an antenna and said DSP processor, said DSP processor operates said wireless transceiver to allow two-way audio communication to a mobile phone, and when one of said MP3 file files is played under the playing operation of said DSP processor, said DSP processor automatically pauses the playing operation and establishes a conversation with the mobile phone through the earphone and microphone under a suspending operation if a ring indication from the mobile phone is transmitted to said DSP processor via the wireless transceiver, and

wherein said DSP processor determines whether the conversation is to be recorded in the memory unit according to the command transmitted from the key inputting unit.

2. (Currently Amended) The MP3 player of claim 1, further comprises comprising a display unit to connect with said DSP processor, wherein the display unit shows the message of said ring indication.

3. (Original) The MP3 player of claim 3, wherein the said display unit shows the message of said playing operation.

4. (Original) The MP3 player of claim 1, wherein the said memory unit is a non-volatile memory device.

5. (Original) The MP3 player of claim 4, wherein said DSP processor executes a program stored in the non-volatile memory device to practice the playing operation.

6. (Currently Amended) The MP3 player of claim 1, further ~~comprises~~comprising a data interface unit to connect with the DSP processor, allowing the DSP processor to receive MP3 files through said data interface.

7. (Original) The MP3 player of claim 6, wherein said data interface unit is a USB port.

8. (Original) The MP3 player of claim 1, wherein the said DSP processor executes a program stored in the memory unit to practice the suspending operation.

9. (Original) The MP3 player of claim 8, wherein said DSP processor, after receiving the ring indication from the mobile phone via the wireless transceiver, practices the suspending operation according to the command transmitted by the key inputting unit.

10. (Cancelled)

11. (Original) The MP3 player of claim 1, wherein said DSP processor generates a ringing signal transmitted to the earphone after receiving a ring indication from the mobile phone via the wireless transceiver.

12. (Currently Amended) The MP3 player of claim 1, wherein said DSP processor determines whether the playing operation is to be paused according to the command transmitted by the key inputting unit.

13. (Currently Amended) The MP3 player of claim 1, wherein said DSP processor ~~determines whether a causes the~~ conversation with the mobile phone is to be established according to the command transmitted from the key inputting unit.

14. (Original) The MP3 player of claim 1, wherein said wireless transceiver is a bluetooth transceiver, and said mobile phone is a bluetooth handset.

15. (Currently Amended) ~~A~~An MP3 player, comprising:

a memory unit, to store MP3 files;

a DSP processor, to decode the MP3 files under a playing operation, producing an audio signal;

an audio outputting interface, to transmit said audio signal to an earphone;

an audio collecting interface, to receive a voice signal from a microphone, and transmit the same to said DSP processor; and

a key inputting unit, to transmit a command requested by a user to the DSP processor[:];]
~~characterized in that,~~

wherein said MP3 player further comprises a wireless transceiver connected to an antenna and said DSP processor, said DSP processor operates said wireless transceiver to allow two-way audio communication to a mobile phone, and when one of said MP3 file files is played under the playing operation of said DSP processor, said DSP processor automatically pauses the playing operation and transmits a sound signal from the mobile phone to the earphone via said audio outputting interface and the voice signal to the mobile phone if a ring indication from the mobile phone is transmitted to said DSP processor via the wireless transceiver; and

wherein said DSP processor, according to the command transmitted by the key inputting unit, determines whether the sound signal from the mobile phone and a voice signal transmitted to the mobile phone is to be recorded in the memory unit.

16. (Currently Amended) The MP3 player of claim 15, further ~~comprises comprising~~ a display unit to connect with said DSP processor, wherein the display unit shows the message of said ring indication.

17. (Original) The MP3 player of claim 16, wherein the said display unit shows the message of said playing operation.

18. (Original) The MP3 player of claim 15, wherein the said memory unit is a non-volatile memory device.

19. (Original) The MP3 player of claim 18, wherein said DSP processor executes a program stored in the non-volatile memory device to practice the playing operation.

20. (Currently Amended) The MP3 player of claim 15, further ~~comprises comprising~~ a data interface unit to connect with the DSP processor, allowing the DSP processor to receive MP3 files through said data interface.

21. (Original) The MP3 player of claim 20, wherein said data interface unit is a USB port.

22. (Cancelled)

23. (Original) The MP3 player of claim 15, wherein said DSP processor generates a ringing signal transmitted to the earphone after receiving a ring indication from the mobile phone via the wireless transceiver.

24. (Currently Amended) The MP3 player of claim 15, wherein said DSP processor determines whether the playing operation is to be paused according to the command transmitted by the key inputting unit.

25. (Currently Amended) The MP3 player of claim 15, wherein said DSP processor determines whether a conversation with the mobile phone is to be established according to the command transmitted from the key inputting unit.

26. (Original) The MP3 player of claim 15, wherein said wireless transceiver is a bluetooth transceiver, and said mobile phone is a bluetooth handset.

27. (Currently Amended) An audio player, comprising:

a memory unit, to store audio compressed files;

a DSP processor, to decompress audio compressed files under a playing operation, producing an audio signal;

an audio outputting unit, responsive to said audio signal to convert said audio signal into sound;

an audio collecting unit, responsive to a voice to provide an electrical signal transmitted to said DSP processor; and

a key inputting unit, to transmit a command requested by a user to said DSP processor[;:] characterized in that,

wherein said audio player further comprises a wireless transceiver connected to the antenna and said DSP processor, said DSP processor operates said wireless transceiver to allow two-way audio communication to a mobile phone; and when said audio compressed file is played under the playing operation of said DSP processor, said DSP processor automatically pauses the playing operation and establishes a conversation with the mobile phone through the audio outputting unit and audio collecting unit under a suspending operation if a ring indication from the mobile phone is transmitted to said DSP processor via the wireless transceiver; and

wherein said DSP processor determines whether the conversation is to be recorded in the memory unit according to the command transmitted by the key inputting unit.

28. (Currently Amended) The audio player of claim 27, wherein the audio player is a MP3 player.
29. (Currently Amended) The audio player of claim 27, further ~~comprises~~ comprising a display unit to connect with said DSP processor, wherein the display unit shows the message of said ring indication.
30. (Original) The audio player of claim 29, wherein the said display unit shows the message of said playing operation.
31. (Original) The audio player of claim 27, wherein the said memory unit is a non-volatile memory device.
32. (Original) The audio player of claim 31, wherein said DSP processor executes a program stored in the non-volatile memory device to practice the playing operation.
33. (Currently Amended) The audio player of claim 27, further ~~comprises~~ comprising a data interface unit to connect with the DSP processor, allowing the DSP processor to receive audio compressed files through the data interface.
34. (Original) The audio player of claim 33, wherein said audio compressed files are MP3 files.
35. (Original) The audio player of claim 33, wherein said data interface unit is a USB port.
36. (Original) The audio player of claim 27, wherein said DSP processor practices the suspending operation according to execution of a program stored in the memory unit.

37. (Currently Amended) The audio player of claim 27, wherein said DSP processor, according to the command transmitted by the key inputting unit, determines whether a conversation with the mobile phone is to be established after receiving the ring indication from the mobile phone via the wireless transceiver.

38. (Canceled)

39. (Original) The audio player of claim 27, wherein said DSP processor generates a ringing signal transmitted to the audio outputting unit after receiving the ring indication from the mobile phone via the wireless transceiver.

40. (Original) The audio player of claim 39, wherein said DSP processor determines whether the playing operation is paused according to the command transmitted by the key inputting unit.

41. (Currently Amended) The ~~MP3-audio~~ player of claim 39, wherein said DSP processor determines whether a conversation with a mobile phone is established according to the command transmitted by the key inputting unit.

42. (Currently Amended) The ~~MP3-audio~~ player of claim 27, wherein said wireless transceiver is a bluetooth transceiver, and said mobile phone is a bluetooth handset.

43. (Currently Amended) A method for an audio player having an earphone and a microphone to allow two-way audio communication to a mobile phone, the method comprising:

establishing a wireless connectivity with a wireless transceiver installed in the audio player between the audio player and the mobile phone;

pausing a playing operation of the audio player if a ring indication from the mobile phone via said wireless connection is transmitted to the audio player; and

transmitting a sound signal from the mobile phone to the earphone and a voice signal from the microphone to the mobile phone through the wireless transceiver according to a command requested by the user after transmitting said ring indication; and
determining whether the sound signal from the mobile phone and the voice signal from the microphone are to be recorded according to said command requested by a user.

44. (Original) The method of claim 43, wherein said wireless transceiver is a bluetooth transceiver, and said mobile phone is a bluetooth handset.

45. (Currently Amended) The method of claim 43, ~~further comprises:~~ wherein the audio player generates a ringing signal and transmits the ringing signal to the earphone after receiving the ring indication.

46. (Currently Amended) The method of claim 43, ~~further comprises:~~ further comprising the step of determining whether the playing operation is to be paused according to a command requested by a user.

47. (Currently Amended) The method of claim 43, ~~further comprises:~~ wherein the audio player plays an MP3 file under said playing operation.

48. (Cancelled)

49. (Currently Amended) The method of claim 43, ~~further comprises:~~ further comprising the step of outputting the record via a data interface unit of the audio player.

50. (Currently Amended) The method of claim 43, ~~further comprises:~~ further comprising the step of displaying the ring indication in a display unit of the audio player.

51. (Cancelled)

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52. (Cancelled)

53. (Cancelled)

54. (Cancelled)

55. (Cancelled)